

TABLE A: STRUCTURAL CODE ANALYSIS (EBC 307, 703, 708)

CODE SECTION	SUBJECT	REQUIREMENTS	APPLIES?	COMPLIANCE / COMMENTS
307.2.1	Seismic support of non-structural building elements	New non-structural building elements, equipment and systems shall be provided with seismic supports as required by Section 1613 of the BC.	Yes	See architectural (GC) and MEP filings for seismic supports of non-structural building elements, equipment, and systems.
307.2.2	Wind resistance of non-structural building elements	New non-structural building elements, equipment, appliances and supports that are exposed to wind shall be designed and installed to resist the wind pressures determined in accordance with Chapter 16 of the BC.	Yes	See architectural (GC) and MEP filings for wind resistance of non-structural building elements, equipment, and systems.
703.2	Increase in floor area	Buildings subject to alterations that increase existing floor area more than 110% per Section 302.7 should comply with structural provisions of the BC as if it were a new building.	No	Proposed alteration does not increase the existing floor surface area by more than 110% per Section 302.7. See Floor Surface Area Analysis.
703.3	Increased demand, entire building	For buildings subject to structural alterations that meet any of the criteria listed in Section 703.3, the structure of such entire building shall be made to comply with the structural loading provisions of the Section 705.	No	Proposed alteration does not meet any of the (5) criteria listed in Section 703.3, so Section 703.3 does not apply and the entire building does not need to comply with the structural provisions of Section 705.
703.4	Increased demand, structural elements and foundations	Alterations not meeting criteria in Sections 703.2 and 703.3 shall comply with Sections 703.4.1 and 703.4.2.	Yes	Proposed alteration does not meet criteria listed in Sections 703.2 and 703.3, so alteration must be analyzed per Sections 703.4.1 and 703.4.2. See analysis of Sections 703.4.1 and 703.4.2 below.
703.4.1	Increased demand, structural elements	Existing structural element with increase in demand or decrease in capacity shall be made to comply with the structural loading provisions of Section 705. The effect shall be considered through load path until resolved in subgrade.	Yes	Proposed alteration results in an increased demand, so Section 703.4.1 applies. Demand is increasing at existing roof level framing in the area of the new addition and at all existing columns below the new addition, so the effect on these elements and the load path to subgrade must be analyzed. The demand on existing roof level beams and girders is increasing in the area of the new addition because the live loads are increasing from 40 psf (live load for roof per 1922 BC) to 50 psf (live load for office per 2022 BC). The increase in demand does not meet any of the exceptions listed in Section 703.4.1, so the existing roof level framing and load path were analyzed. The existing roof level beams and girders have sufficient capacity to support the increased demand and comply with Section 705. The demand on existing columns is increasing because of the additional gravity and lateral loads from the new addition. Increase in demand does not meet any of the exceptions listed in Section 703.4.1, so the columns and load path were analyzed. The existing exterior columns have the capacity to support the proposed demand and comply with Section 705. The existing interior columns below the proposed addition do not have sufficient capacity and need to be reinforced in order to comply with Section 705.
703.4.2	Increased demand, foundations	New foundation elements or existing foundation elements with increase in demand shall comply with Chapter 18 of the NYC BC.	Yes	Proposed alteration results in an increased demand on foundation elements and does not meet the exceptions listed in Section 703.4.2, so Section 703.4.2 applies and the existing foundation must comply with Sections 703.4.2.1 and 703.4.2.2, and Chapter 18 of the 2022 BC. Note that no settlement or foundation movement has been observed and the proposed alteration does not reduce the bearing capacity of the soil strata providing support. The demand on existing foundation elements is increasing because of the additional gravity and lateral loads from the new addition. The increase in demand does not meet any of the exceptions listed in Section 703.4.2.2 so the existing foundation elements were analyzed. The existing foundations have sufficient capacity to support the increase in demand and comply with Section 705, so no foundation work is required.
703.5.1	Stability index	Where a structural alteration reduces the lateral stiffness of a building by more than 10 percent, the building's lateral system or the altered elements of its lateral system shall have a stability index less than 0.25.	No	Proposed alteration does not reduce the lateral stiffness of the existing building, so Section 703.5.1 does not apply.
703.5.2	Buildings or stories initially out-of-plumb	Where a structural alteration increases the lateral loads on a building or story, or reduces the lateral stiffness of a building or story, the analysis if the altered building or altered story shall include the effects of pre-existing horizontal out-of-plumbness in excess of 1 percent in the existing structural system.	No	Existing building is not out-of-plumb, so Section 703.5.2 does not apply.
703.5.3	Alterations of URM buildings with wood-framed floors constructed prior to 1903	Structural alterations of unreinforced masonry buildings with wood- framed floors constructed prior to 1903 shall comply with Sections 703.5.3.1 through 703.5.3.6.	No	Existing building is not an unreinforced masonry building with wood framed floors constructed prior to 1903, so Section 703.5.3 does not apply.
703.6.1	Exceptions from continuity detailing requirements	Notwithstanding the requirements of Sections 703.2 and 703.3, existing structural elements need not comply with the continuity detailing requirements of the BC unless required by Section 708 of this code.	No	No continuity detailing is present, per Section 708, so Section 703.6.1 does not apply and existing structural elements do not need to comply with the continuity detailing requirements of the BC.
703.6.2	Exceptions from seismic detailing requirements	Notwithstanding the requirements of Sections 703.2 and 703.3, existing structural elements need not comply with the seismic detailing requirements of the BC unless required by Section 708 of this code.	No	No seismic detailing is present, per Section 708, so Section 703.6.2 does not apply and existing structural elements do not need to comply with the continuity detailing requirements of the BC.
703.7	Seismic separation requirements	Altered buildings that must comply with Sections 703.2 or 703.3 and are adjacent to or sharing unreinforced masonry walls shall comply with Section 703.7.	No	Altered building is not required to comply with Sections 703.2 and 703.3 (see analysis above), so Section 703.7 does not apply.
708	Remediation work	Remediation work shall be performed within the work area as required by Section 708.1.1 and for conditions identified during the course of work independent of work area as required by Section 708.1.2. Per sections 708.1.1 and 708.1.2, listed required remediation work applies to unreinforced masonry structures and wood or light-framed structures only.	No	Building is not an unreinforced masonry or light-framed structure, so Section 708 does not apply.

Note: See architectural drawings for code analysis of EBC Chapter 6.

FLOOR SURFACE AREA ANALYSIS (EBC 302.7)

Per Equation 3-1:

$$I = \frac{(FS_{Ap} - FS_{Ar})}{FS_{Ar}} \times 100 = \text{Percentage increase in floor surface area}$$

where:
I = percent increase in floor surface area
FS_{Ap} = floor surface area proposed upon completion
FS_{Ar} = floor surface area to remain after removals

Percent increase in floor surface area for proposed alteration:

$$I = \frac{133,672 \text{ sqft} - 80,634 \text{ sqft}}{80,634 \text{ sqft}} \times 100 = 65.78\% < 110\%$$

ASSOCIATED FILINGS

Associated work is filed separately under the following DOB NOW Job Numbers:

- Architecture/General Construction (GC): M87654321-II
MEP (M): M87654321-S2

STRUCTURAL SPECIAL INSPECTIONS

1. Special inspections required by the New York City Building Code shall be performed by a testing agency retained by the owner for the following items:
- A. Structural Steel - Welding (BC 1705.2.1);
 - B. Structural Steel - Details (BC 1705.2.2);
 - C. Structural Steel - High Strength Bolting (BC 1705.2.3);
 - D. Concrete - Cast-in-Place (BC 1705.3);
 - E. Concrete Design Mix (BC 1905.3);
 - F. Concrete Sampling and Testing (BC 1705.3);
 - G. Masonry (BC 1705.4);
 - H. Subgrade Inspection (BC 1705.6);
 - I. Wall Panels, Curtain Walls and Veneers (BC 1702.20);
 - J. Structural Stability - Alteration of Existing Buildings (BC 1705.25.1);
2. Progress inspections required by the New York City Building Code shall be performed by a testing agency retained by the owner for the following items:
- A. Footing and Foundation (BC 110.3.1);
 - B. Final (28-114, 28-116, BC 110.5).
3. The testing agency for special inspection shall file all appropriate forms with the Department of Buildings.

OWNER:



ARCHITECT:

MEP ENGINEER:

STRUCTURAL ENGINEER:

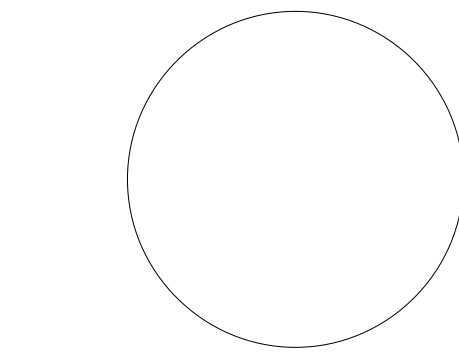
PROJECT:

CASE STUDY 02
VERTICAL
ENLARGEMENT

DOB NOW JOB NUMBER:

DOB APPROVAL STAMP:

2026.08.14	SUBMIT FOR DOB REVIEW
2026.07.21	SUBMIT FOR DOB REVIEW
2026.06.16	SUBMIT FOR DOB REVIEW
2026.06.02	SUBMIT FOR DOB REVIEW
2026.05.26	SUBMIT FOR DOB REVIEW



DRAWING TITLE:

STRUCTURAL
CODE ANALYSIS

PROJECT #: DRAWN BY:

SHEET TITLE:

TOTAL PAGE: 15

S-005.00

TABLE B: CONDITION ASSESSMENT REQUIREMENTS (EBC 704)

CODE SECTION	SUBJECT	REQUIREMENTS	APPLIES?	COMPLIANCE / COMMENTS
704.1	Condition assessment, general	Condition assessments shall be performed in accordance with Section 704 for all structural alterations.	Yes	Section 704 applies for all structural alterations. See analysis of Sections 704.2 and 704.3 below.
704.1.1	Area of structural condition assessment	The condition assessment shall include the area where structural work is being performed and all structural elements that may be affected by the alteration as required by Section 703.	Yes	See "Proposed Structural Alteration" and key plans on this sheet for structural work area as defined by EBC Chapter 2.
704.1.2	Visual assessment	For all buildings 7 stories or less, a visual assessment from the exterior of the building shall be performed.	Yes	Existing building is less than 7 stories tall, so Section 704.1.2 applies and a visual inspection from the exterior of the building is required.
704.2	Initial condition assessment	An initial structural condition assessment is required for all structural alterations, where an increase in the demand capacity ratio is introduced to an existing structure, or where required by Sections 907.2, 1007.2 or 1103.3.	Yes	Proposed structural alteration increases the demand capacity ratio of existing structure, so Section 704.2 applies and an initial structural condition assessment is required.
704.3	Detailed condition assessment	A detailed structural condition assessment is required for all structural alterations where existing structural elements are to be altered or an increase in the demand capacity ratios introduced to an existing structure.	Yes	Proposed structural alteration increases the demand capacity ratio of existing structure, so Section 704.3 applied and a detailed structural condition assessment is required.

TABLE C: DESCRIPTION OF STRUCTURAL ELEMENTS (EBC 704)

NOTE	ELEMENT	SIZE	SIZE REFERENCE	MATERIAL	MATERIAL STRENGTH	MATERIAL REFERENCE
1	Existing steel beam	W12x40	Measured on site	A9 steel	Yield stress = 27.5ksi Ultimate stress = 55ksi	EBC Section H103, Table H103.2 (1900 - 1931)
2	Existing steel girder	W14x68	Measured on site	A9 steel	Yield stress = 27.5ksi Ultimate stress = 55ksi	EBC Section H103, Table H103.2 (1900 - 1931)
3	Existing steel column	W12x120	Measured on site	A9 steel	Yield stress = 27.5ksi Ultimate stress = 55ksi	EBC Section H103, Table H103.2 (1900 - 1931)
4	Existing concrete slab	5" thick	Measured on site	Cinder concrete	Min. compressive strength = 0psi*	EBC Section H103, Table H103.4 (1900 - 1931)
5	Existing draped mesh reinforcement in slab	5 ga wire @ 4" o.c.	Measured on site	Unknown**	Ultimate stress = 55ksi	EBC Section H102.2.3.
6	Existing foundation grillage	3ft 3in x 3ft 3in bearing area***	N/A (Assumption to be verified in detailed assessment)	A9 steel	Yield stress = 27.5ksi Ultimate stress = 55ksi	EBC Section H103, Table H103.2 (1900 - 1931)

* Cinder concrete to shall have 0psi value for reinforced concrete analysis per note under EBC Section H103, Table H103.4.

** Assume draped mesh slab is per H102.2.3.

*** Assumption to be verified during detailed structural condition assessment in accordance with Section 704.3.

TABLE D: DESCRIPTION OF EXISTING CONDITIONS (EBC 704)

DAMAGE CONDITION	PRESENT?	DESCRIPTION OF DAMAGE
Discontinuity of load path	No	
Deficiency or damage of structural elements in load path	No	
Deterioration of structural elements, including but not limited to rot, corrosion, loss of cohesion, displacement and cracking, plumbness, alignment and displacement	No	
Signs of moisture infiltration and related damage	Yes	Spalling cinder concrete and rusting wire at underside of draped mesh slabs due to water infiltration, typical at all existing restroom locations.
Deformations due to possible overloading	No	
Presence of bowing, lean or deflections in excess of 1 percent	No	
Elements with significant unbraced lengths	No	
Indications of building settlement	No	
Damage at facade identified during visual assessment per 704.1.2.	No	

Note:
1. Existing conditions assessment based on visual inspection of readily accessible and visible portions of area of structural assessment.
2. Assessment and remediation work per Section 708 does not apply because building is not an unreinforced masonry or light-framed structure. See S-005 for code analysis.

STRUCTURAL DESCRIPTION

The existing building is a 3-story plus cellar building with a floor area of 20,000 SF per floor and a total floor area of 80,000 SF. The height of the existing building is 46 feet (14 feet floor-to-floor height at 2nd and 3rd floor, 18 feet floor-to-floor height at ground floor, 14 feet floor-to-floor height at cellar). The building was completed in 1925 under the 1922 NYC Building Code. The existing building is a department store with Occupancy Group M - Mercantile and the construction Class is I-C. The existing building has a structural steel frame with steel beams, girder, and columns. The existing slabs are draped-mesh reinforced concrete. The existing exterior walls are curtain walls. See plan for existing structural element spacing and geometry, and Table C: Description of Structural Elements for existing structural element size and material.

PROPOSED STRUCTURAL ALTERATION

Structural scope of work:
1. Remove existing concrete slab on grade and soil below to install new elevator pit in cellar.
2. Remove existing fireproofing at columns to be reinforced.
3. Remove existing draped mesh slab and steel beams as needed at new floor openings.
4. Remove all existing draped mesh slabs at roof level.
5. Remove existing parapets and roof structures in area of new addition.
6. New elevator pit at cellar for new elevator that goes to cellar.
7. New elevator over-run platform for new elevator that goes to ground floor.
8. New floor openings for elevator shaft. Infill opening with new slab on deck around new elevator shaft as needed.
9. Existing draped mesh slabs at existing restrooms to be repaired in place.
10. Reinforce existing interior columns below new addition. Install new fireproofing.
11. Bolster existing steel roof framing as needed to level floor.
12. New structure for bulkheads at proposed 4th floor terrace and proposed addition roof.
13. New structure for proposed two-story addition for office use (Occupancy Class B - Business). New two story addition to have a floor area of 16,000 SF per floor and 32,000 SF gross floor area plus bulkheads. The height of the proposed addition is 28 feet, so the total height of the existing building plus the addition is 74 feet. Addition to have steel frame structure with concrete slab on metal deck floors and roof. New column locations to match those of the existing below. See architectural drawings for further description of the addition.
14. New structural framing for roof-mounted equipment at proposed addition roof.

Work area for structural scope as defined by EBC Chapter 2:
1. Two structural bays in existing cellar at location of new elevator pit and elevator platform.
2. Two structural bays at existing ground floor, 2nd floor and 3rd floor at location of new elevators.
3. Three structural bays at existing 2nd floor and 3rd floor at location of existing restrooms with damaged draped mesh slabs to be repaired.
5. Existing columns to be reinforced.
6. Entire existing roof.
6. New addition.
7. See hatched, labeled areas on plans.
8. See architectural drawings for total work area.

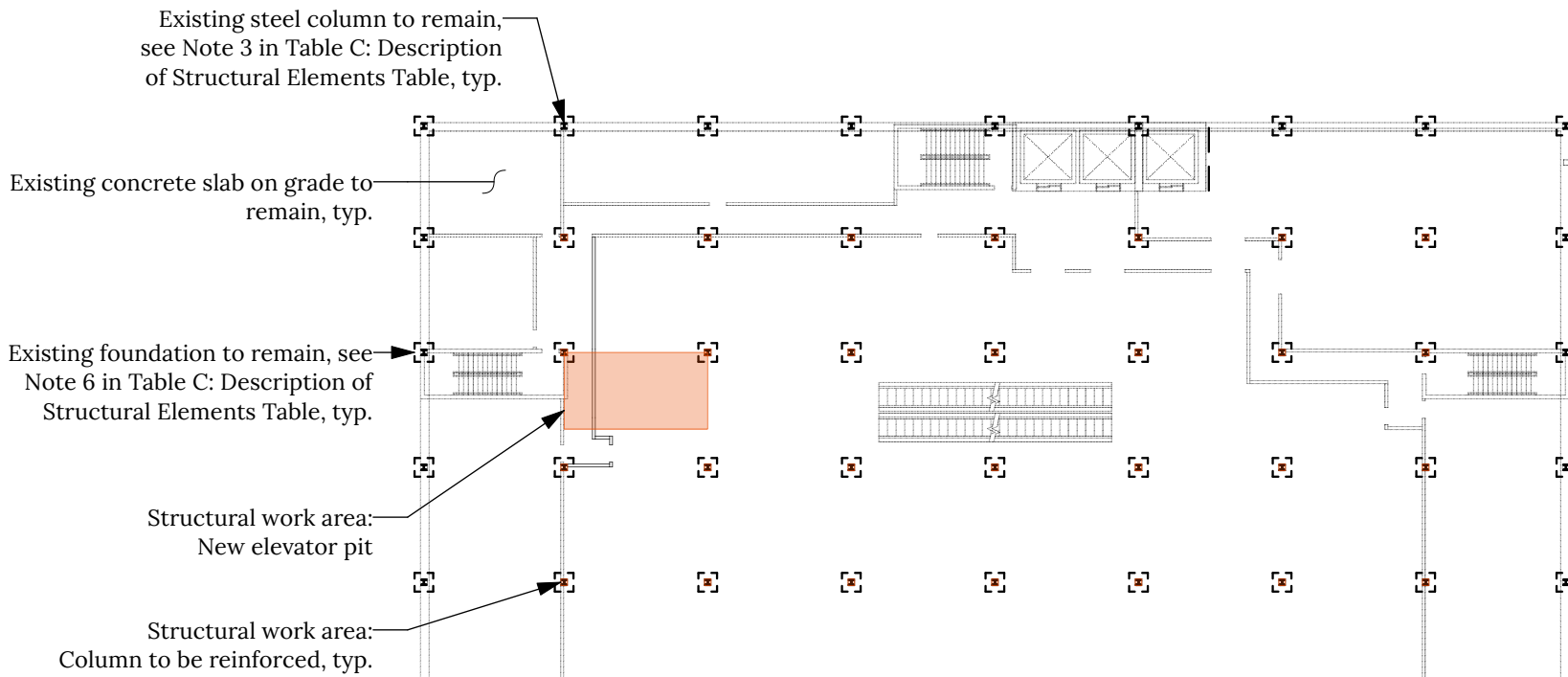
Analysis of load path:
1. New steel framing and concrete slabs on metal deck at new addition to be designed to support new loads.
2. Existing steel framing at existing roof level (proposed new 4th floor) has sufficient capacity to support new loads.
3. Existing exterior steel columns have sufficient capacity to support new loads. Existing interior steel columns need to be reinforced to support new loads.
4. Existing foundations have sufficient capacity to support new loads.

APPLICABLE CODES

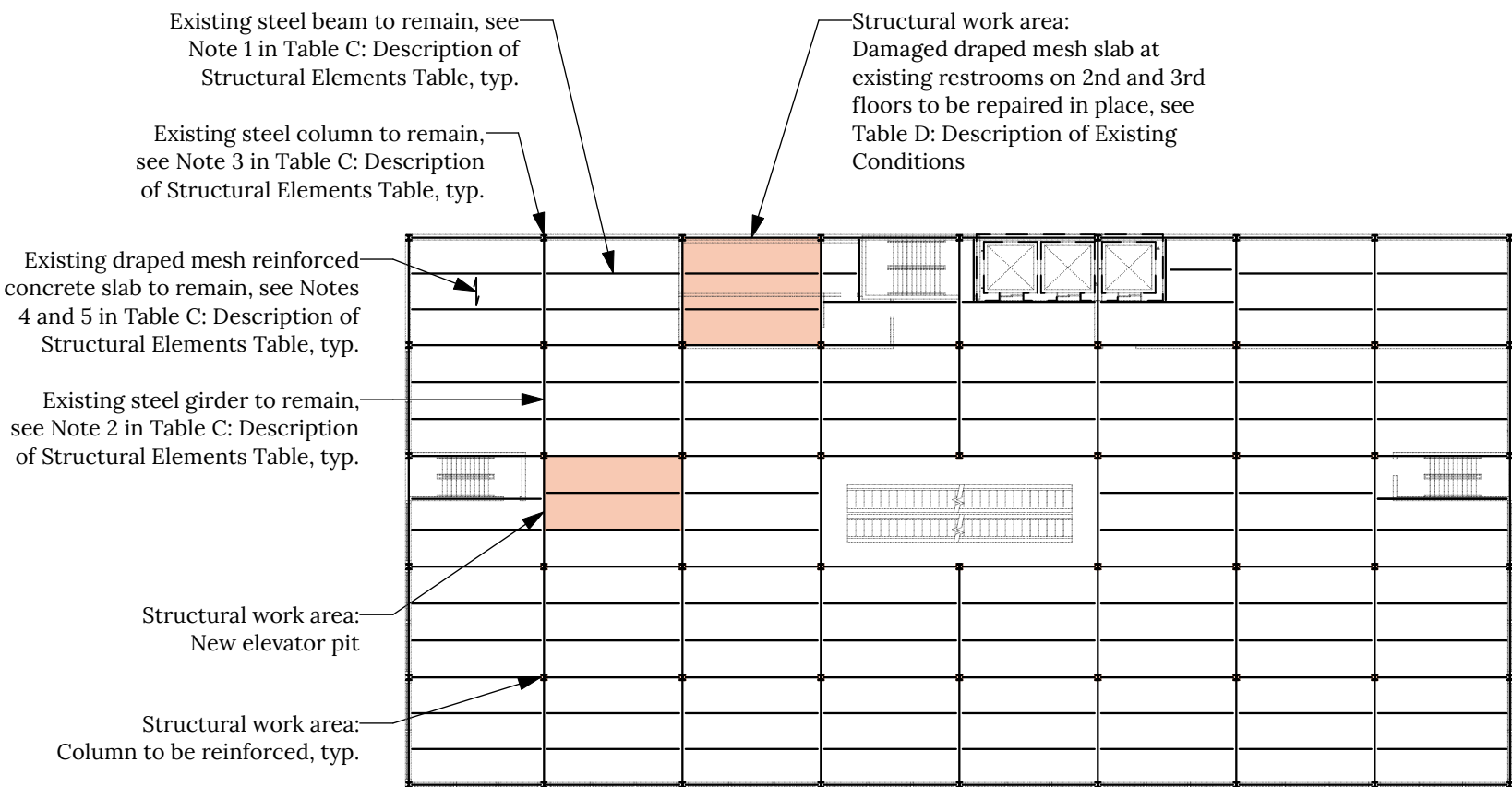
1. New York City Existing Building Code 2027
2. New York City Building Code 2022

DOCUMENTS CONSULTED FOR CONDITION ASSESSMENT

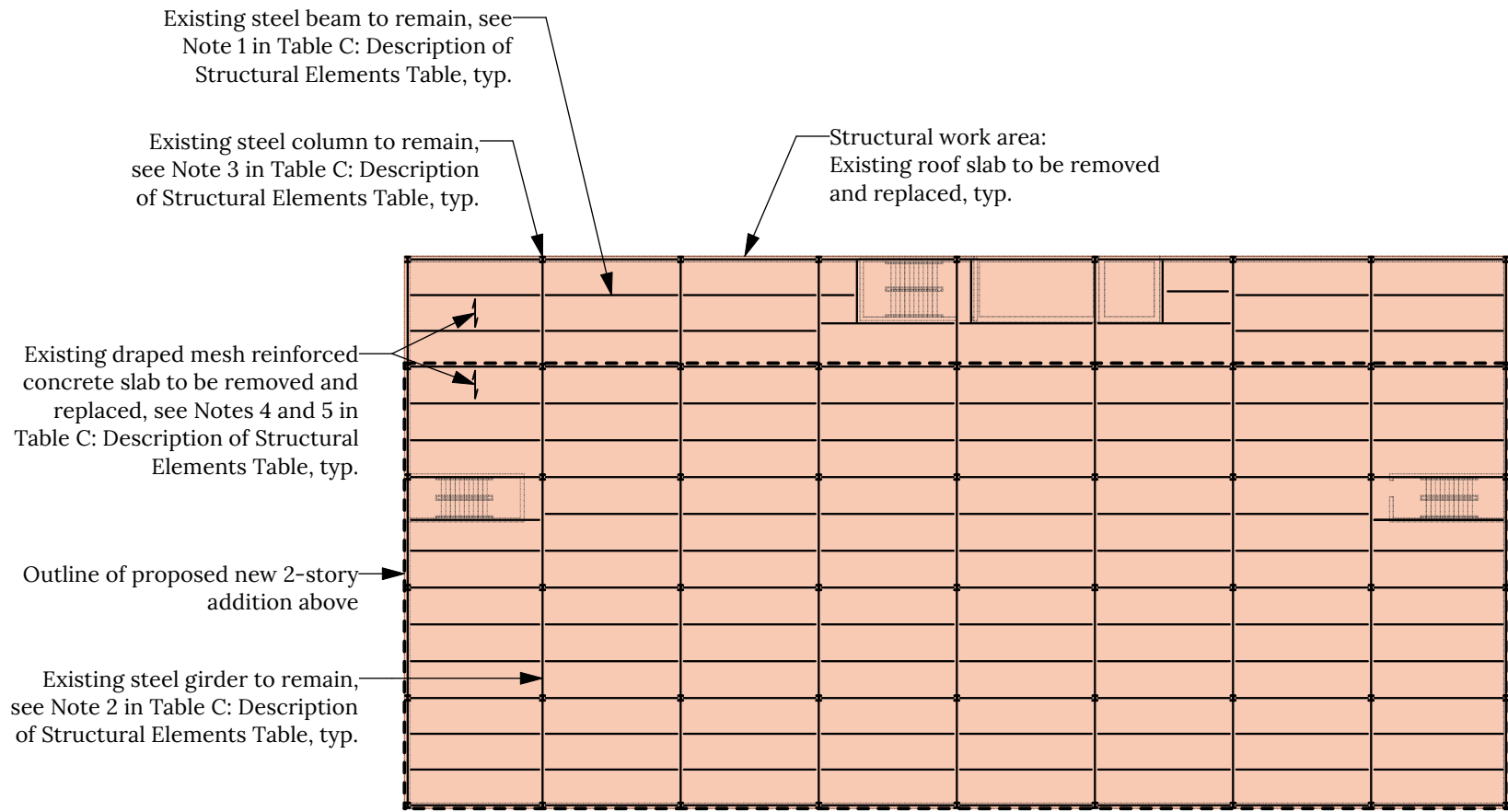
1. Architectural backgrounds provided by architect, dated May 5, 2026 (unverified source).



1 Existing Cellar/Foundation Plan
Scale: 1/32" = 1'-0"



2 Existing Typical Floor Plan
Scale: 1/32" = 1'-0"



3 Existing Roof Plan
Scale: 1/32" = 1'-0"

LEGEND

- Existing steel beam or girder
- Existing steel column
- Existing draped mesh concrete slab
- Structural area of work
- Outline of proposed new 2-story addition above

OWNER:



ARCHITECT:

MEP ENGINEER:

STRUCTURAL ENGINEER:

PROJECT:

CASE STUDY 02
VERTICAL
ENLARGEMENT

DOB NOW JOB NUMBER:

Not to be filed at DoB
- For Owner

DOB APPROVAL STAMP:

2026.08.14	SUBMIT FOR DOB REVIEW
2026.07.21	SUBMIT FOR DOB REVIEW
2026.06.16	SUBMIT FOR DOB REVIEW
2026.06.02	SUBMIT FOR DOB REVIEW
2026.05.26	SUBMIT FOR DOB REVIEW

DRAWING TITLE:

INITIAL ASSESSMENT

PROJECT #:

DRAWN BY:

SHEET TITLE:

TOTAL PAGE: 15

S-010.00

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704.1.1	Area of structural condition assessment	The condition assessment shall include the area where structural work is being performed and all structural elements that may be affected by the alteration as required by Section 703.	Yes	See "Proposed Structural Alteration" and key plans on this sheet for structural work area as defined by EBC Chapter 2.
704.1.2	Visual assessment	For all buildings 7 stories or less, a visual assessment from the exterior of the building shall be performed.	Yes	Existing building is less than 7 stories tall, so Section 704.1.2 applies and a visual inspection from the exterior of the building is required.
704.2	Initial condition assessment	An initial structural condition assessment is required for all structural alterations, where an increase in the demand capacity ratio is introduced to an existing structure, or where required by Sections 907.2, 1007.2 or 1103.3.	Yes	Proposed structural alteration increases the demand capacity ratio of existing structure, so Section 704.2 applies and an initial structural condition assessment is required.
704.3	Detailed condition assessment	A detailed structural condition assessment is required for all structural alterations where existing structural elements are to be altered or an increase in the demand capacity ratios introduced to an existing structure.	Yes	Proposed structural alteration increases the demand capacity ratio of existing structure, so Section 704.3 applied and a detailed structural condition assessment is required.

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5	Existing draped mesh reinforcement in slab	5 ga wire @ 4" o.c.	Measured on site	Unknown**	Ultimate stress = 55ksi	EBC Section H102.2.3.
6	Existing foundation grillage	3ft 3in x 3ft 3in bearing area***	Measured on site at test pit opened for detailed assessment	A9 steel	Yield stress = 27.5ksi Ultimate stress = 55ksi	EBC Section H103, Table H103.2 (1900 - 1931)

* Cinder concrete to shall have 0psi value for reinforced concrete analysis per note under EBC Section H103, Table H103.4.

** Assume draped mesh slab is per H102.2.3.

*** Assumptions made in initial condition assessment confirmed by additional information acquired in detailed condition assessment

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Elements with significant unbraced lengths	No	
Indications of building settlement	No	
Damage at facade identified during visual assessment per 704.1.2.	No	

Note:

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7. New elevator over-run platform for new elevator that goes to ground floor.
8. New floor openings for elevator shaft. Infill opening with new slab on deck around new elevator shaft as needed.
9. Existing draped mesh slabs at existing restrooms to be repaired in place.
10. Reinforce existing interior columns below new addition. Install new fireproofing.
11. Bolster existing steel roof framing as needed to level floor.
12. New structure for bulkheads at proposed 4th floor terrace and proposed addition roof.
13. New structure for proposed two-story addition for office use (Occupancy Class B - Business). New two story addition to have a floor area of 16,000 SF per floor and 32,000 SF gross floor area plus bulkheads. The height of the proposed addition is 28 feet, so the total height of the existing building plus the addition is 74 feet. Addition to have steel frame structure with concrete slab on metal deck floors and roof. New column locations to match those of the existing below. See architectural drawings for further description of the addition.
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Work area for structural scope as defined by EBC Chapter 2:

1. Two structural bays in existing cellar at location of new elevator pit and elevator platform.
2. Two structural bays at existing ground floor, 2nd floor and 3rd floor at location of new elevators.
3. Three structural bays at existing 2nd floor and 3rd floor at location of existing restrooms with damaged draped mesh slabs to be repaired.
5. Existing columns to be reinforced.
6. Entire existing roof.
6. New addition.
7. See hatched, labeled areas on plans.
8. See architectural drawings for total work area.

Analysis of load path:

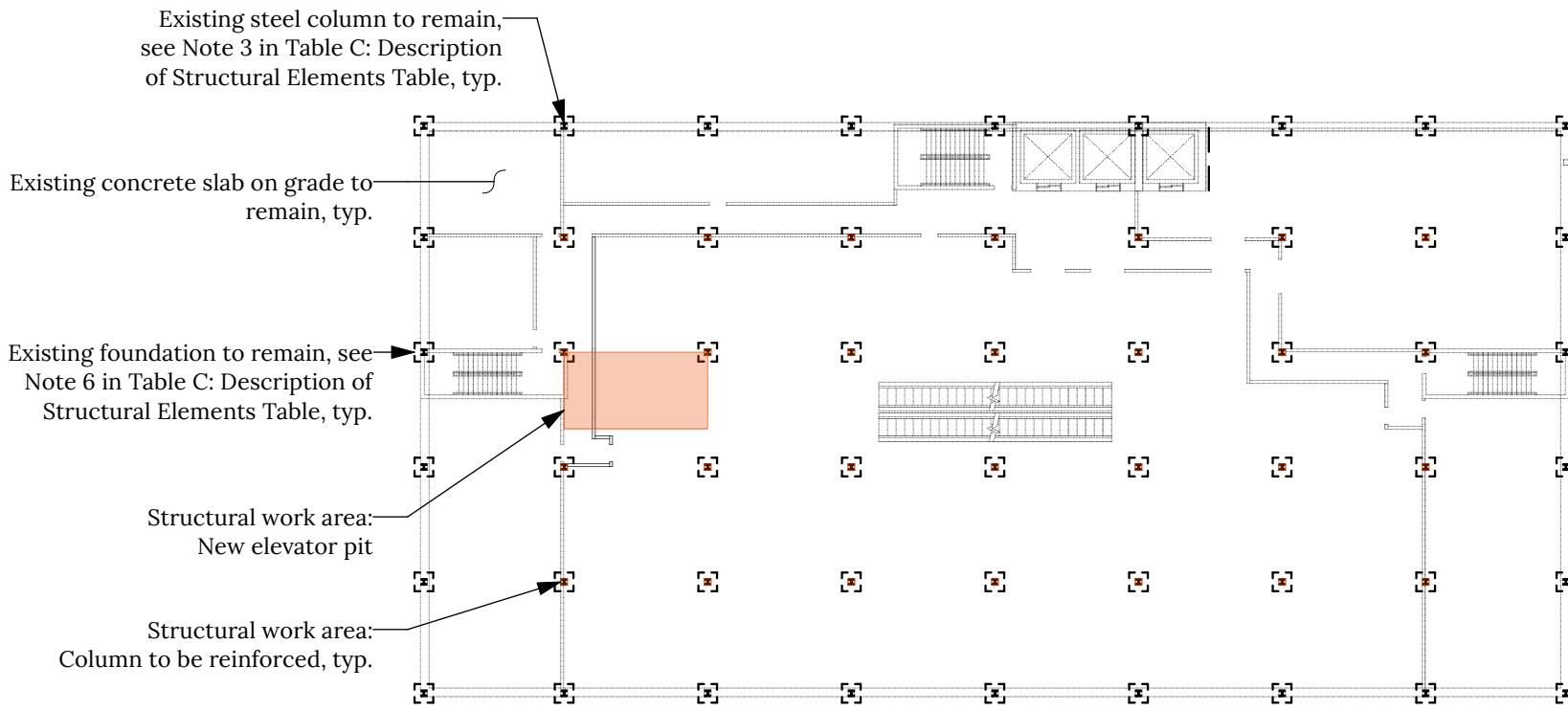
1. New steel framing and concrete slabs on metal deck at new addition to be designed to support new loads.
2. Existing steel framing at existing roof level (proposed new 4th floor) has sufficient capacity to support new loads.
3. Existing exterior steel columns have sufficient capacity to support new loads. Existing interior steel columns need to be reinforced to support new loads.
4. Existing foundations have sufficient capacity to support new loads.

APPLICABLE CODES

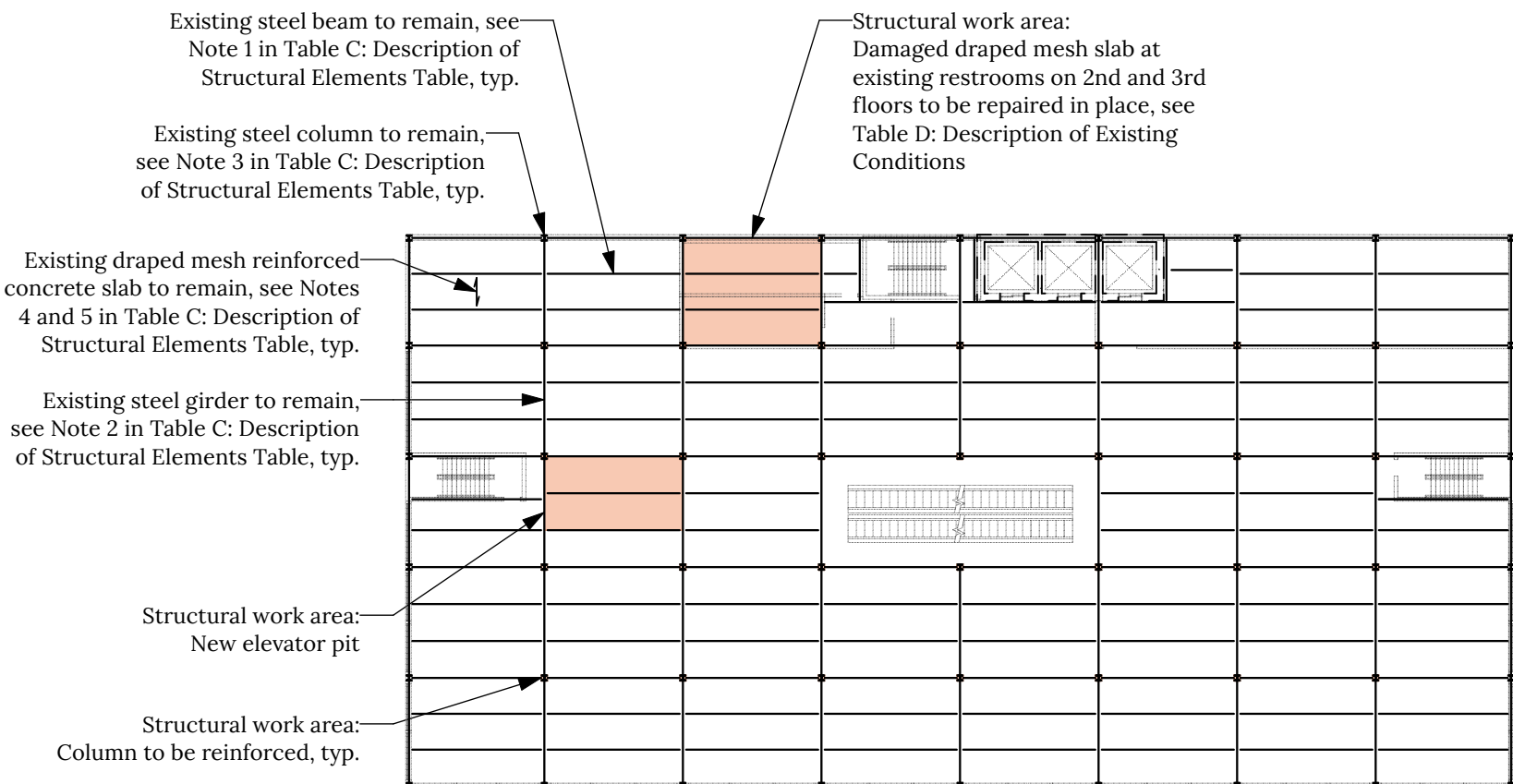
1. New York City Existing Building Code 2027
2. New York City Building Code 2022

DOCUMENTS CONSULTED FOR CONDITION ASSESSMENT

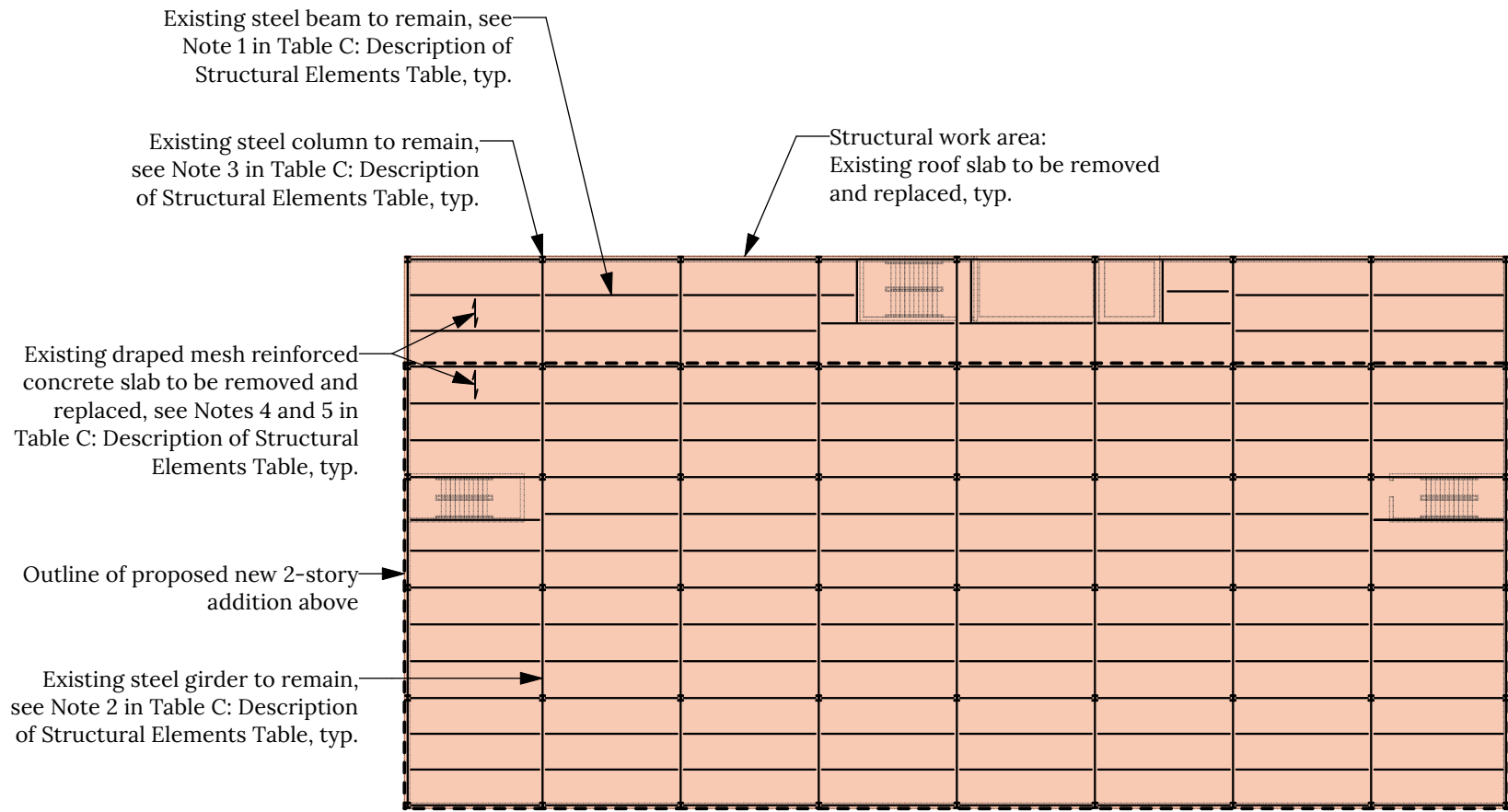
1. Architectural backgrounds provided by architect, dated May 5, 2026 (unverified source).



1 Existing Cellar/Foundation Plan
Scale: 1/32" = 1'-0"



2 Existing Typical Floor Plan
Scale: 1/32" = 1'-0"



3 Existing Roof Plan
Scale: 1/32" = 1'-0"

LEGEND

- Existing steel beam or girder
- Existing steel column
- Existing draped mesh concrete slab
- Structural area of work
- Outline of proposed new 2-story addition above

OWNER:



ARCHITECT:

MEP ENGINEER:

STRUCTURAL ENGINEER:

PROJECT:

CASE STUDY 02
VERTICAL
ENLARGEMENT

DOB NOW JOB NUMBER:

DOB APPROVAL STAMP:

2026.08.14 SUBMIT FOR DOB REVIEW

2026.07.21 SUBMIT FOR DOB REVIEW

2026.06.16 SUBMIT FOR DOB REVIEW

2026.06.02 SUBMIT FOR DOB REVIEW

2026.05.26 SUBMIT FOR DOB REVIEW

DRAWING TITLE:

DETAILED ASSESSMENT

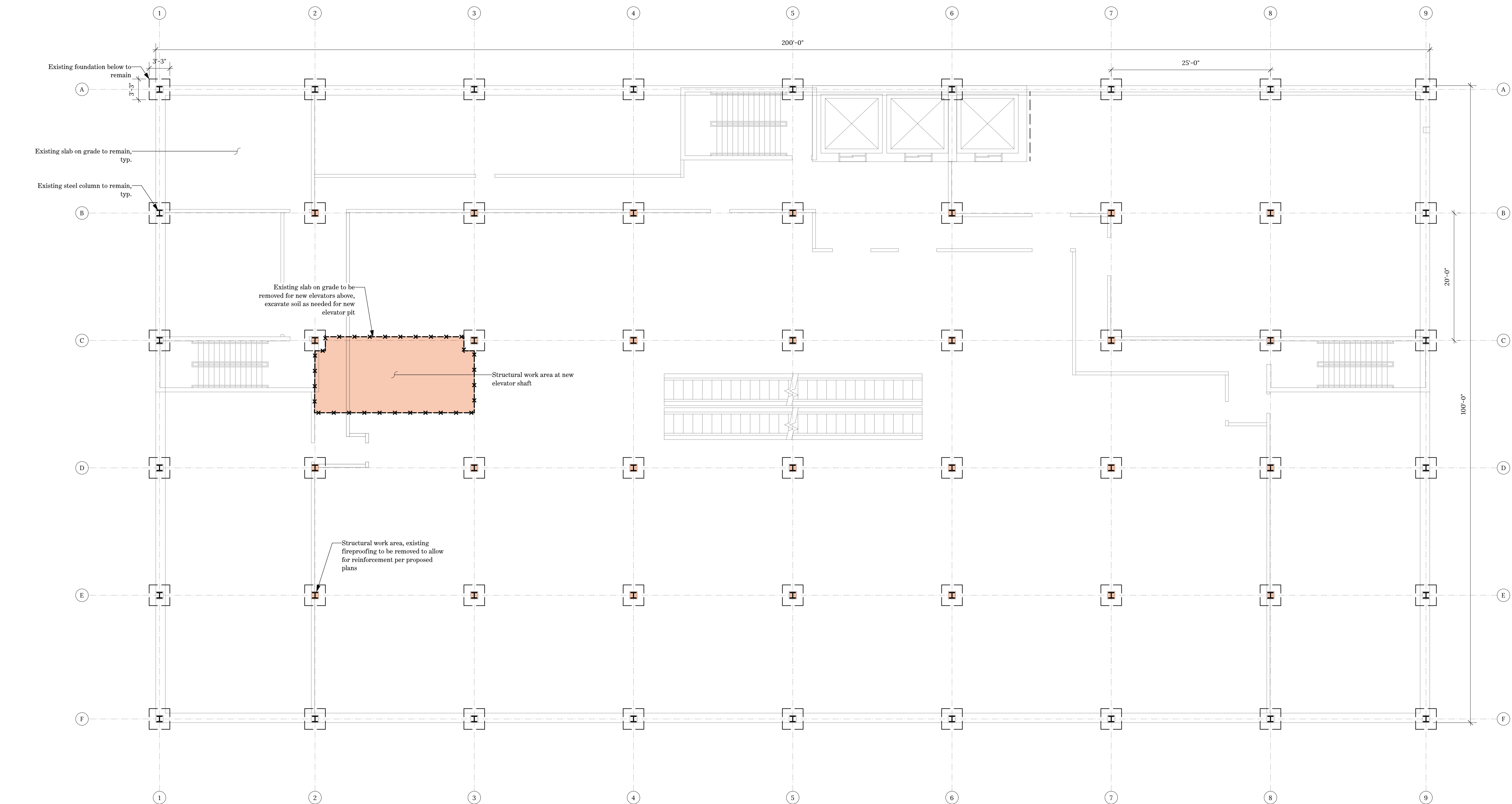
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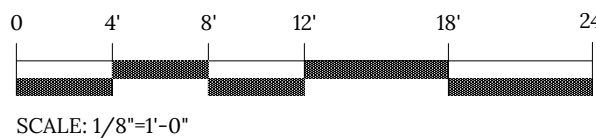
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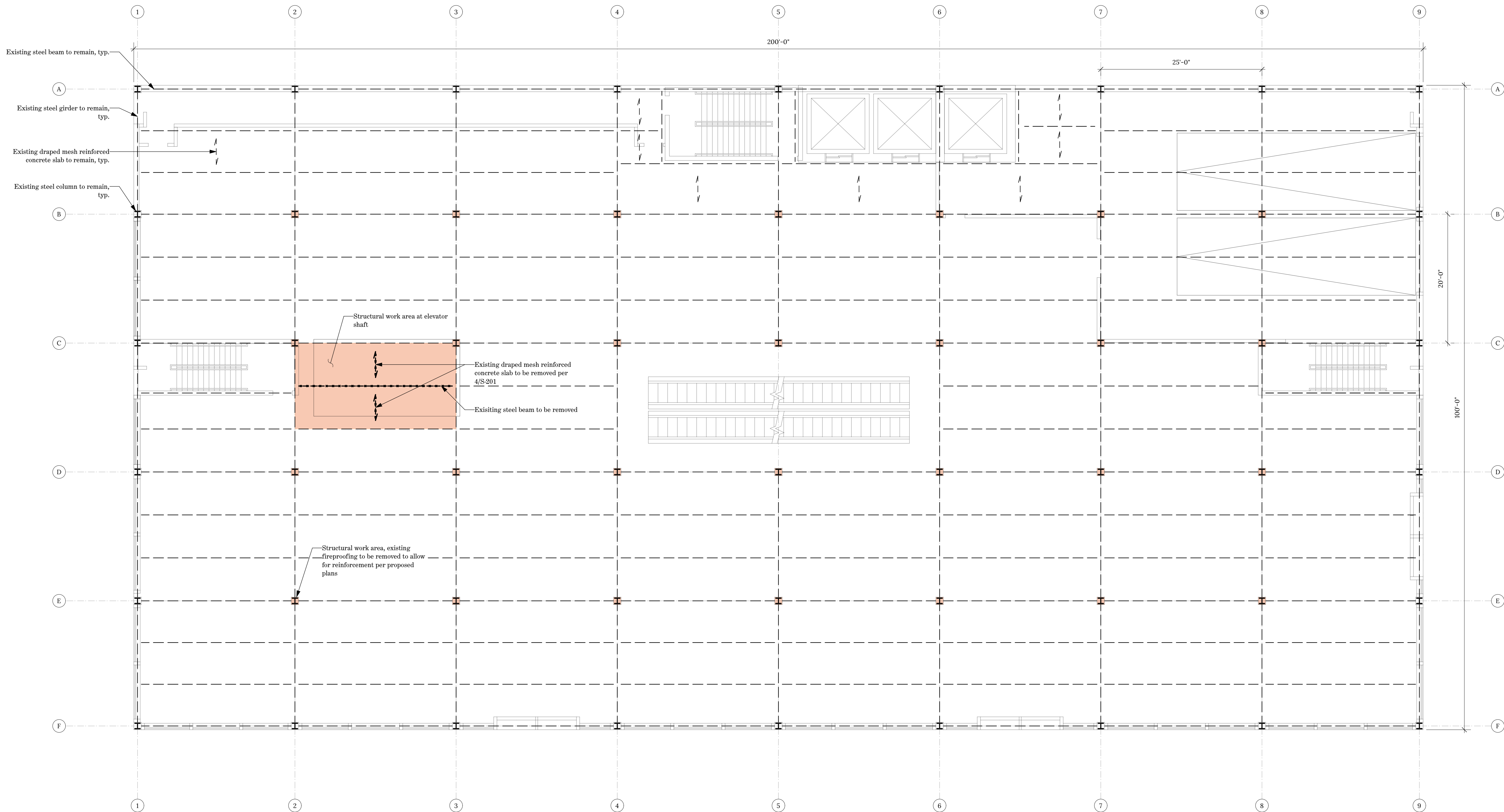


- LEGEND
- Existing steel beam or girder to remain
 - Existing steel beam or girder to be removed
 - Existing steel column to remain
 - Existing draped mesh concrete slab to remain
 - Existing draped mesh concrete slab to remain and be repaired in place
 - Existing draped mesh concrete slab to be removed
 - Existing concrete slab on grade to be removed and soil to be excavated
 - Structural area of work

1 Existing / Demolition Cellar Plan
Scale: 1/8" = 1'-0"

Notes:
1. See Detailed Assessment, S-020, for existing conditions.

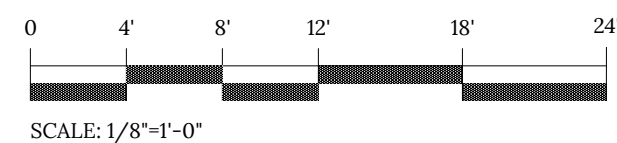


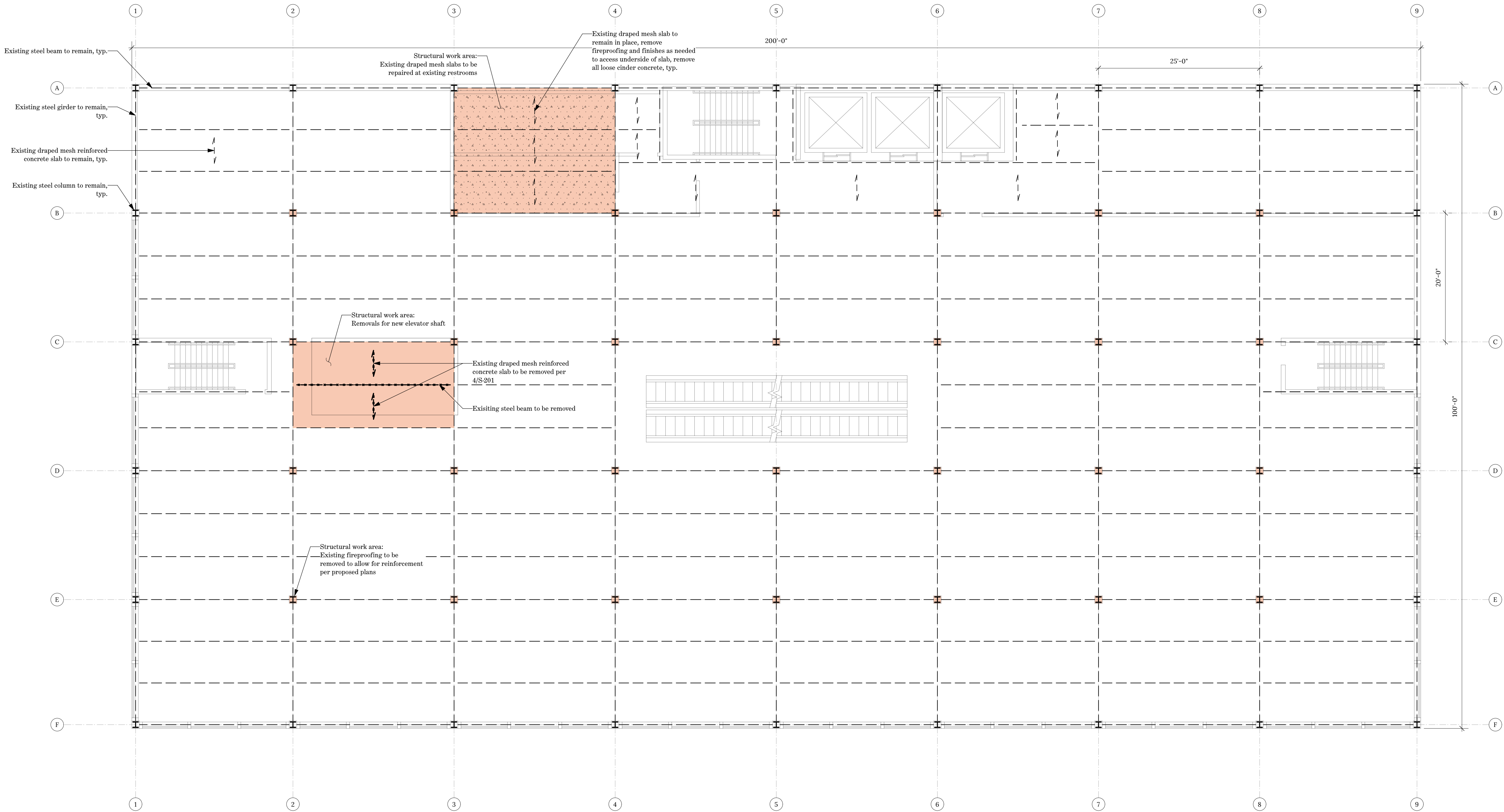


- LEGEND**
- Existing steel beam or girder to remain
 - Existing steel beam or girder to be removed
 - Existing steel column to remain
 - Existing draped mesh concrete slab to remain
 - Existing draped mesh concrete slab to remain and be repaired in place
 - Existing draped mesh concrete slab to be removed
 - Existing concrete slab on grade to be removed and soil to be excavated
 - Structural area of work

1 Existing / Demolition Ground Floor Plan
Scale: 1/8" = 1'-0"

Notes:
1. See Detailed Assessment, S-020, for existing conditions.

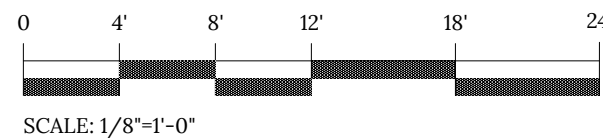




- LEGEND**
- Existing steel beam or girder to remain
 - Existing steel beam or girder to be removed
 - Existing steel column to remain
 - Existing draped mesh concrete slab to remain
 - Existing draped mesh concrete slab to remain and be repaired in place
 - Existing draped mesh concrete slab to be removed
 - Existing concrete slab on grade to be removed and soil to be excavated
 - Structural area of work

1 Existing / Demolition 2nd & 3rd Floor Plan
Scale: 1/8" = 1'-0"

Notes:
1. See Detailed Assessment, S-020, for existing conditions.



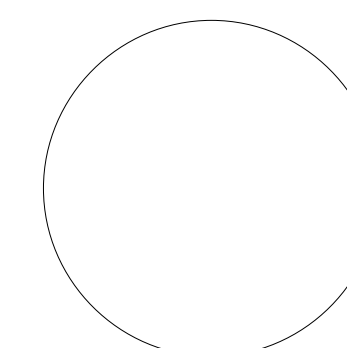
STRUCTURAL ENGINEER -

CASE STUDY 02

VERTICAL ENLARGEMENT

DOB APPROVAL STAMP:

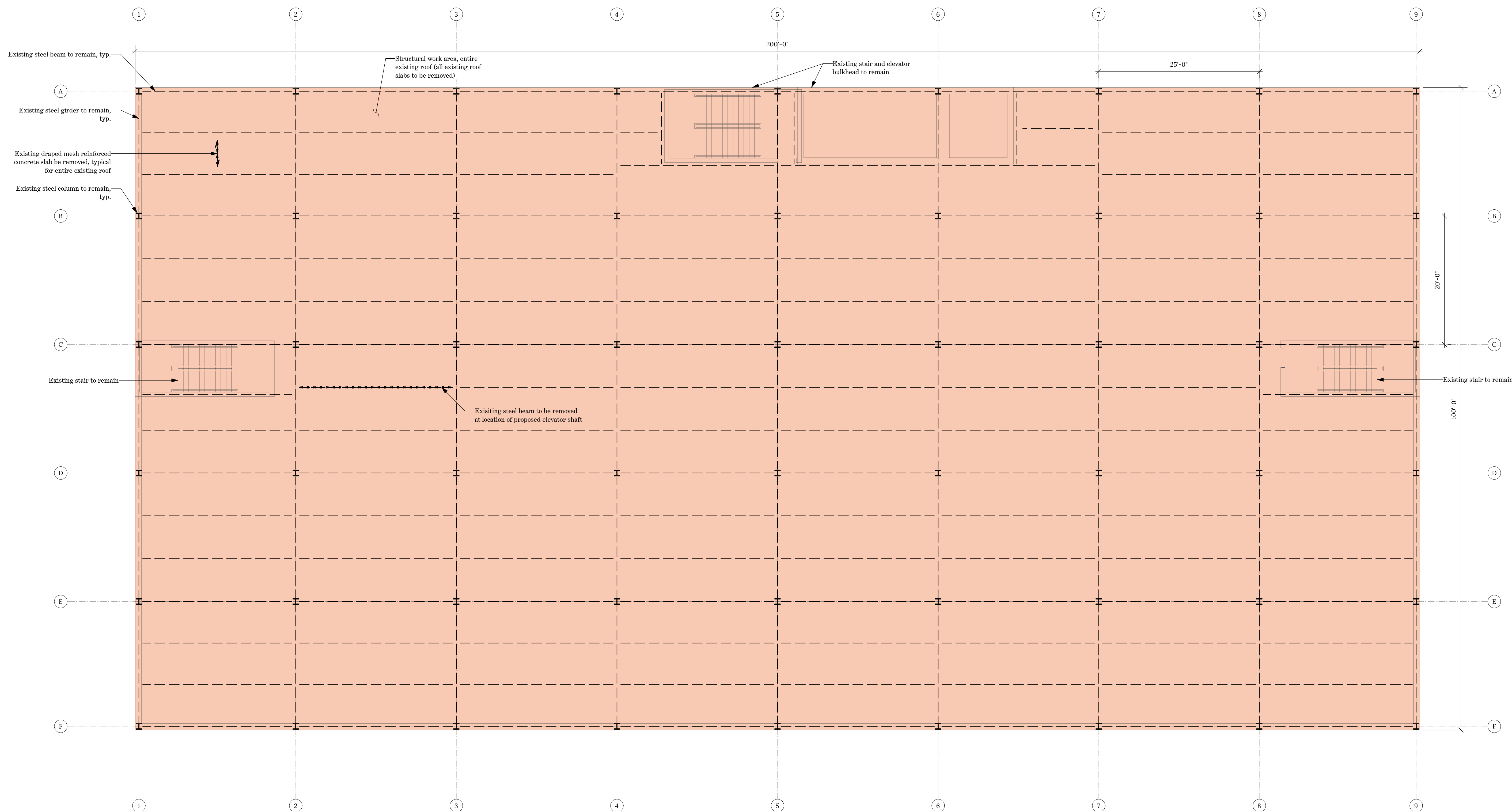
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2026.07.21	SUBMIT FOR DOB REVIEW
2026.06.16	SUBMIT FOR DOB REVIEW
2026.06.02	SUBMIT FOR DOB REVIEW
2026.05.26	SUBMIT FOR DOB REVIEW



Existing / Demolition
Roof Plan

TOTAL PAGE: 15

15 DM-103.00

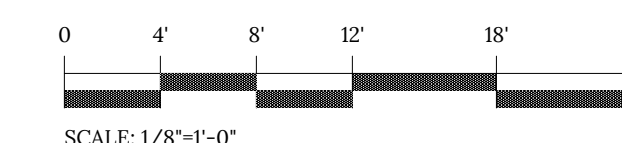


	Existing steel beam or girder to remain
	Existing steel beam or girder to be removed
	Existing steel column to remain
	Existing draped mesh concrete slab to remain
	Existing draped mesh concrete slab to remain and be repaired in place
	Existing draped mesh concrete slab to be removed
	Existing concrete slab on grade to be removed and soil to be excavated
	Structural area of work

1 Existing / Demolition Roof Plan
Scale: 1/8" = 1'-0"

Notes:

1. See Detailed Assessment, S-020, for existing conditions.



ARCHITECT:

MEP ENGINEER:

STRUCTURAL ENGINEER:

PROJECT:
CASE STUDY 02
VERTICAL
ENLARGEMENT

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2026.06.16	SUBMIT FOR DOB REVIEW
2026.06.02	SUBMIT FOR DOB REVIEW
2026.05.26	SUBMIT FOR DOB REVIEW

DRAWING TITLE:

Proposed Cellar Plan

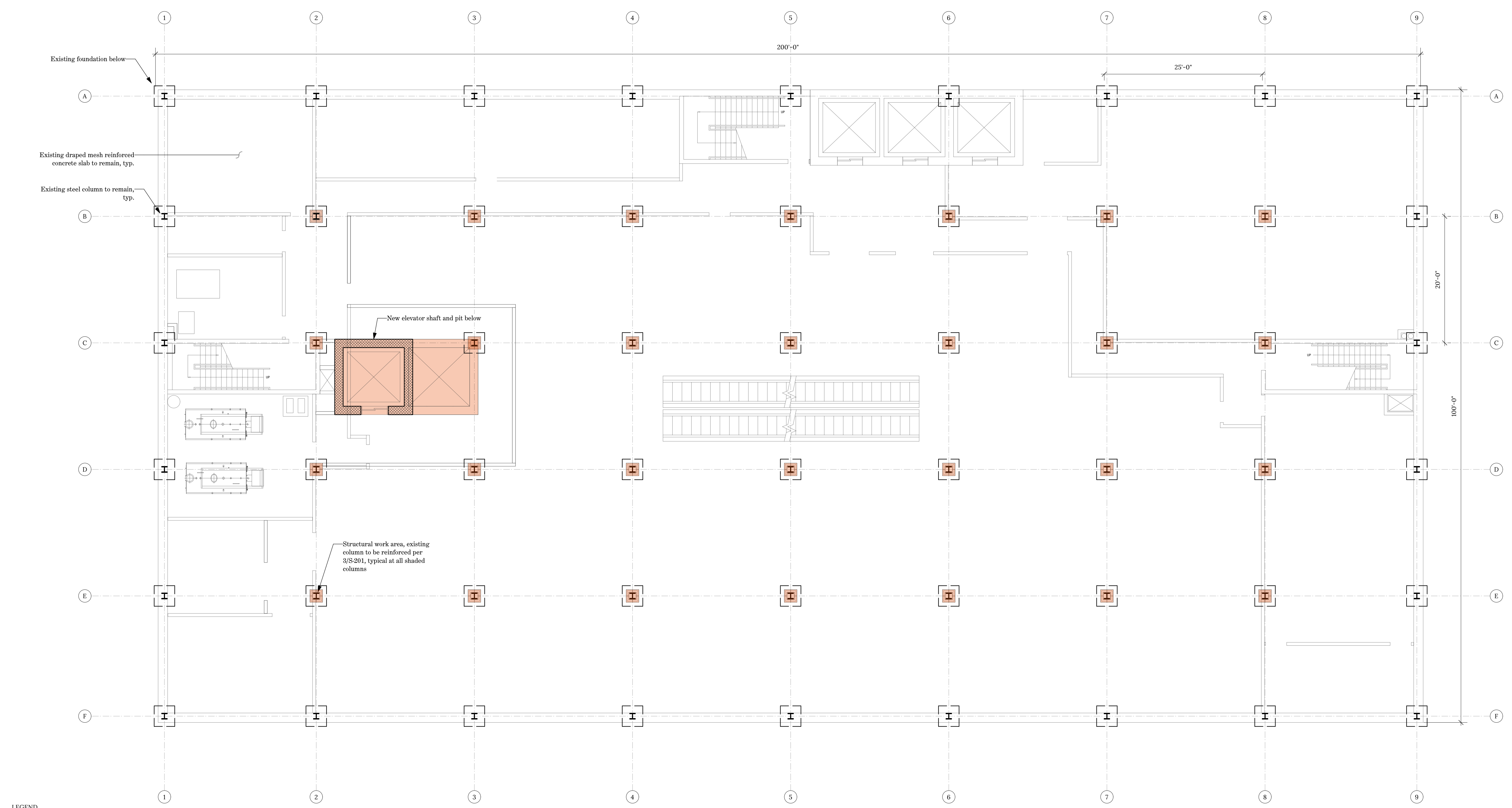
PROJECT #:

DRAWN BY:

SHEET TITLE:

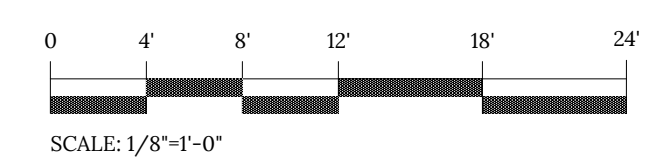
TOTAL PAGE: 15

S-100.00



- LEGEND
- Existing steel beam or girder to remain
 - New steel beam or girder
 - I Existing steel column
 - I New steel column
 - - - Existing draped mesh concrete slab to remain
 - - - Existing draped mesh concrete slab to be repaired
 - New concrete slab on metal deck
 - ▨ New CMU
 - Orange box Structural area of work
 - Light orange box New addition

1 **Proposed Cellar Plan**
Scale: 1/8" = 1'-0"



SCALE: 1/8"=1'-0"

ARCHITECT:

MEP ENGINEER:

STRUCTURAL ENGINEER:

PROJECT:

CASE STUDY 02
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2026.06.02	SUBMIT FOR DOB REVIEW
2026.05.26	SUBMIT FOR DOB REVIEW

DRAWING TITLE:

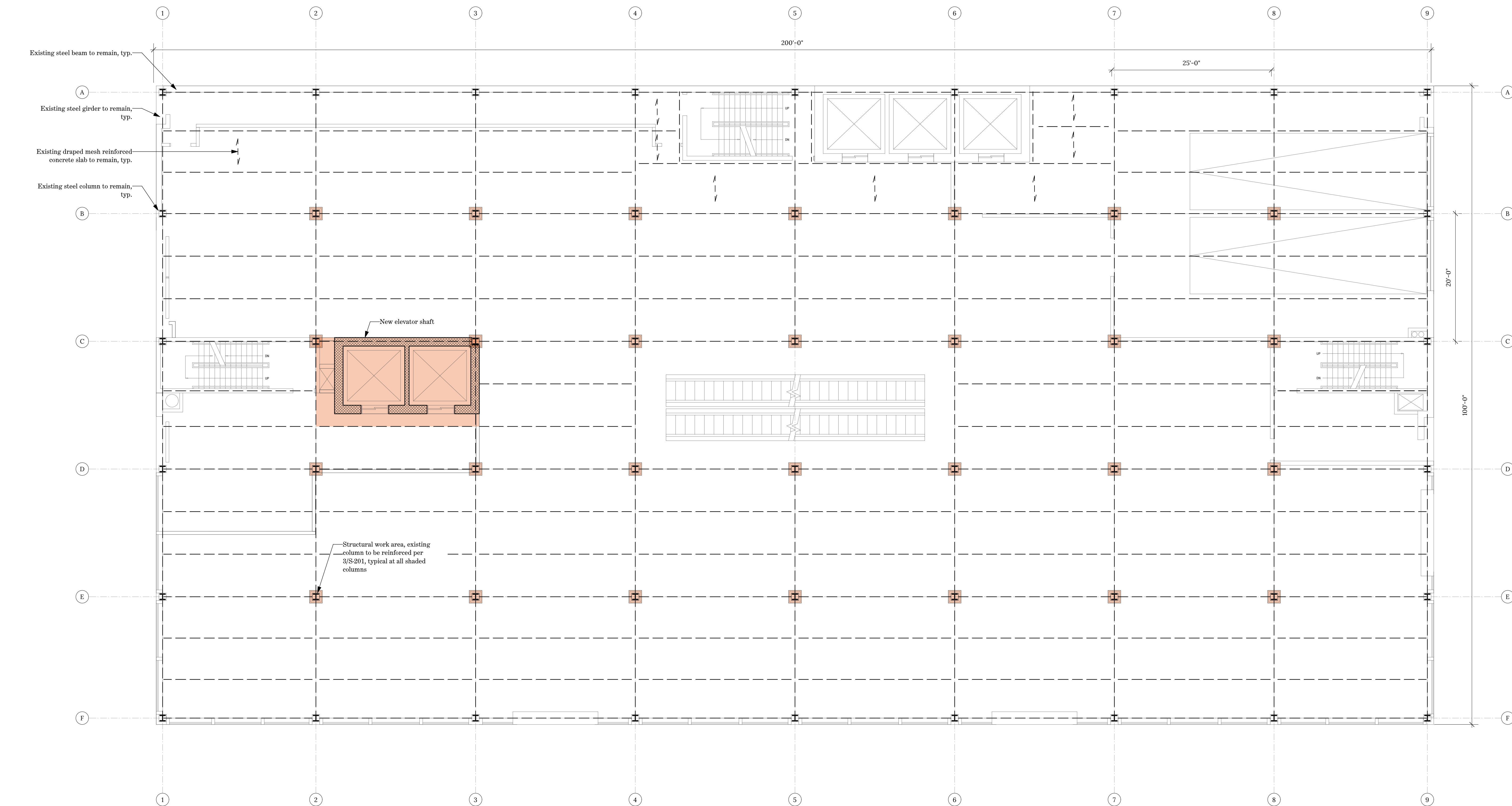
**Proposed Ground
Floor Plan**

PROJECT #:

DRAWN BY:

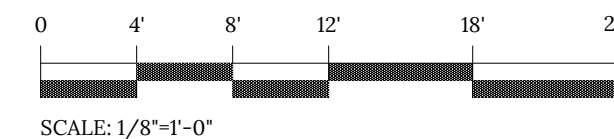
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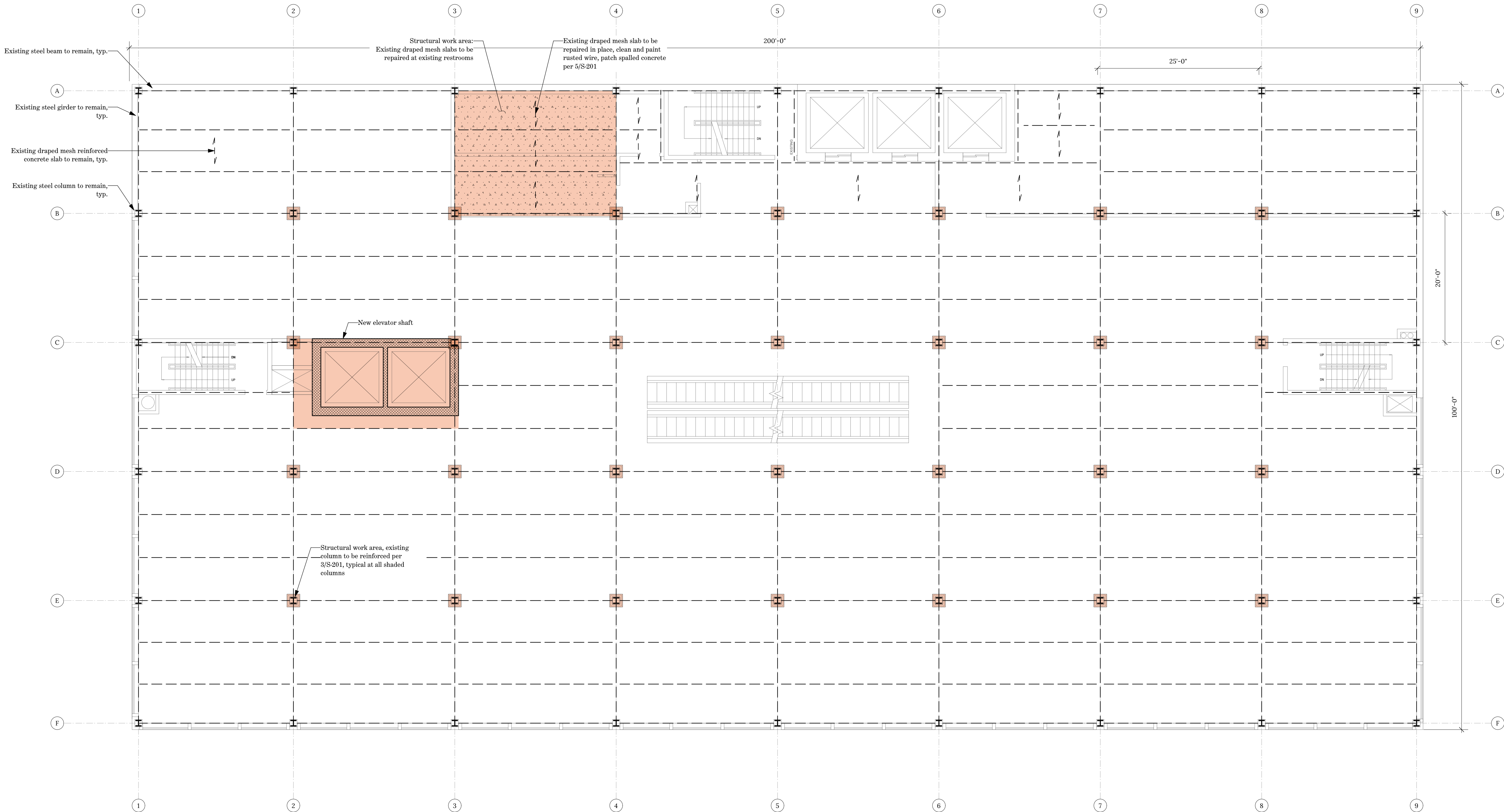
S-101.00



- LEGEND**
- Existing steel beam or girder to remain
 - New steel beam or girder
 - Existing steel column
 - New steel column
 - Existing draped mesh concrete slab to remain
 - Existing draped mesh concrete slab to be repaired
 - New concrete slab on metal deck
 - New CMU
 - Structural area of work
 - New addition

1 Proposed Ground Floor Plan
Scale: 1/8" = 1'-0"

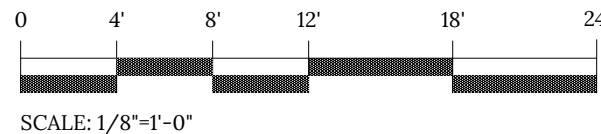




LEGEND

- Existing steel beam or girder to remain
- New steel beam or girder
- Existing steel column
- New steel column
- Existing draped mesh concrete slab to remain
- Existing draped mesh concrete slab to be repaired
- New concrete slab on metal deck
- New CMU
- Structural area of work
- New addition

1 Proposed 2nd & 3rd Floor Plan
Scale: 1/8" = 1'-0"



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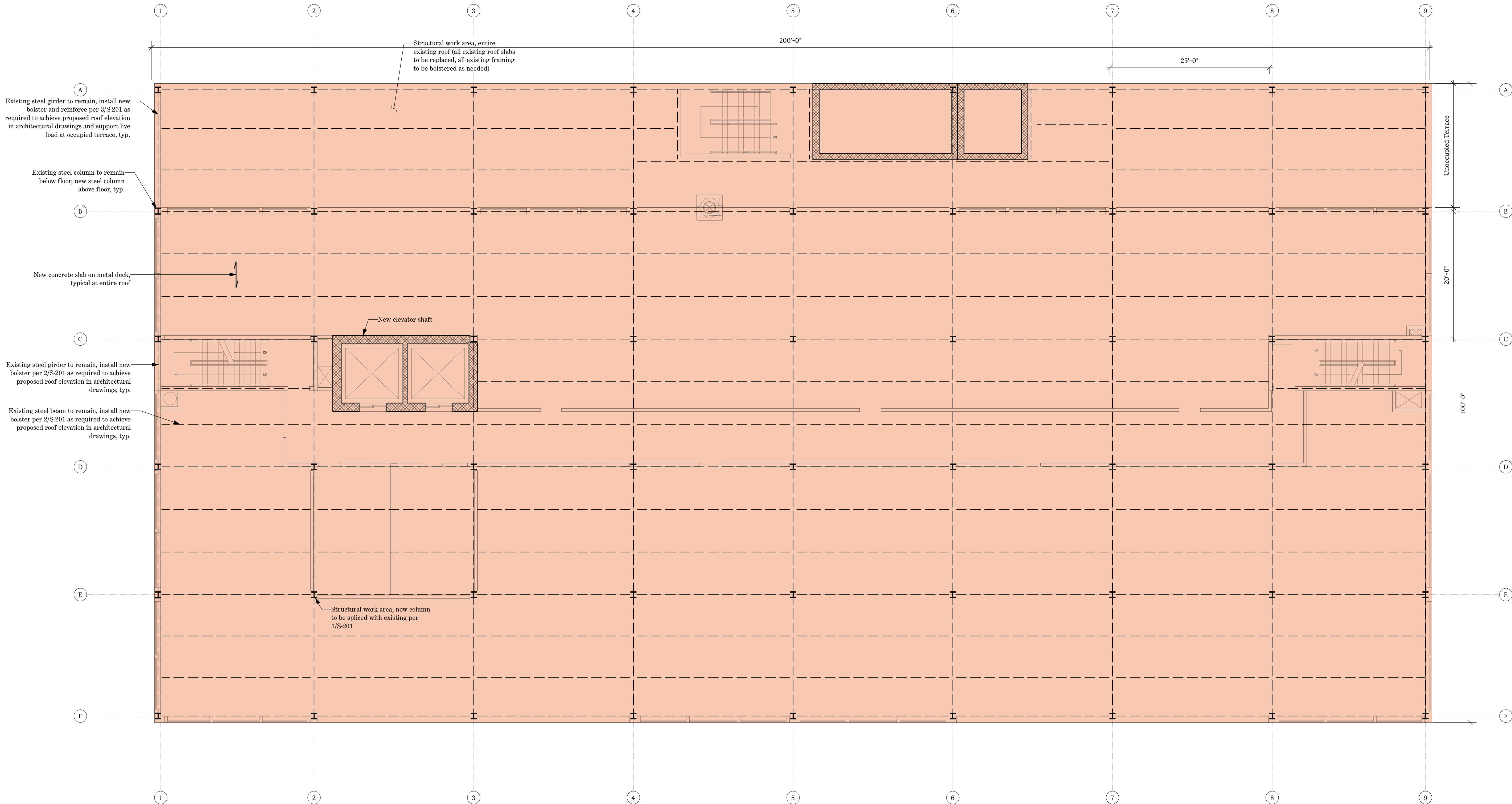
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2026.05.26	SUBMIT FOR DOB REVIEW

DRAWING TITLE:
Proposed 2nd & 3rd Floor Plans

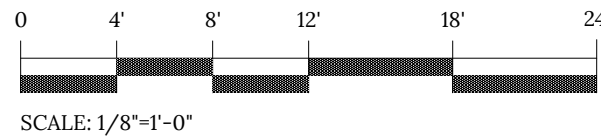
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SHEET TITLE:	

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- LEGEND**
- Existing steel beam or girder to remain
 - New steel beam or girder
 - Existing steel column
 - New steel column
 - Existing draped mesh concrete slab to remain
 - Existing draped mesh concrete slab to be repaired
 - New concrete slab on metal deck
 - New CMU
 - Structural area of work
 - New addition

1 Proposed 4th Floor Plan (Existing Roof / New Addition)
Scale: 1/8" = 1'-0"



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2026.06.02 SUBMIT FOR DOB REVIEW

2026.05.26 SUBMIT FOR DOB REVIEW

DRAWING TITLE:
**Proposed 4th Floor
Plan**

PROJECT #:DRAWN BY:
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TOTAL PAGE: 15

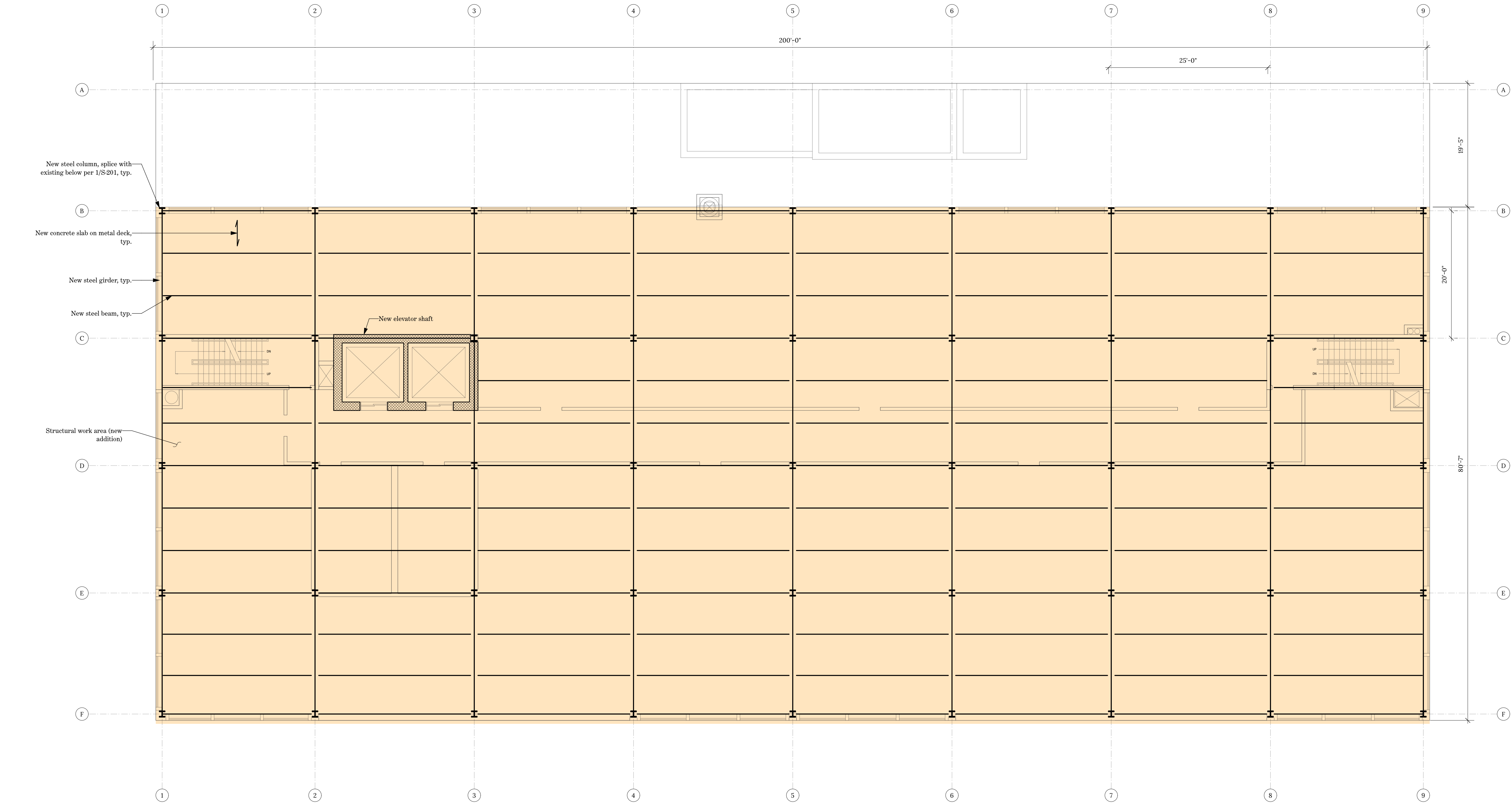
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2026.06.16	SUBMIT FOR DOB REVIEW
2026.06.02	SUBMIT FOR DOB REVIEW
2026.05.26	SUBMIT FOR DOB REVIEW

DRAWING TITLE:
Proposed 5th Floor Plan

PROJECT #:DRAWN BY:

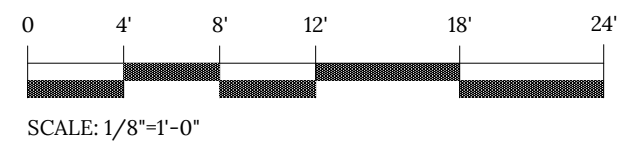
SHEET TITLE:
S-104.00

TOTAL PAGE: 15



- LEGEND**
- Existing steel beam or girder to remain
 - New steel beam or girder
 - Existing steel column
 - New steel column
 - Existing draped mesh concrete slab to remain
 - Existing draped mesh concrete slab to be repaired
 - New concrete slab on metal deck
 - New CMU
 - Structural area of work
 - New addition

1 Proposed 5th Floor Plan (New Addition)
Scale: 1/8" = 1'-0"

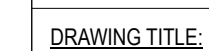


STRUCTURAL ENGINEER :

CASE STUDY 02

VERTICAL ENLARGEMENT

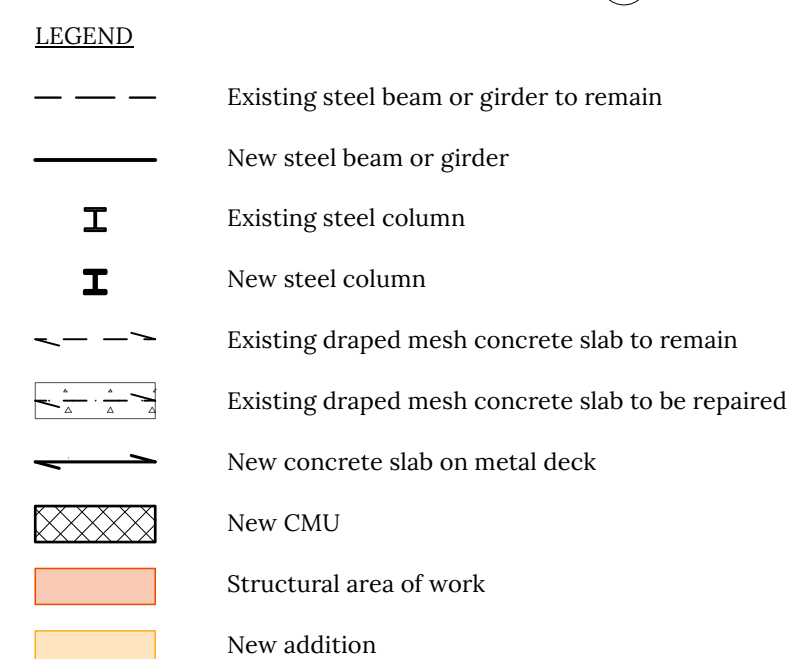
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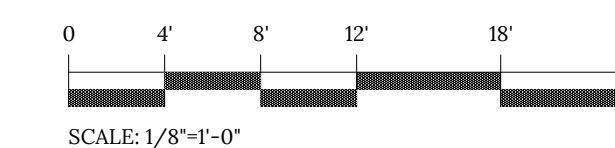
Proposed Roof Plan

DRAWN BY:	SHEET TITLE :
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TOTAL PAGE: 15



1 Proposed Roof Plan (New Addition)
Scale: 1/8" = 1'-0"



MEP ENGINEER:

STRUCTURAL ENGINEER:

PROJECT:
CASE STUDY 02
VERTICAL
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2026.06.02	SUBMIT FOR DOB REVIEW
2026.05.26	SUBMIT FOR DOB REVIEW

DRAWING TITLE:

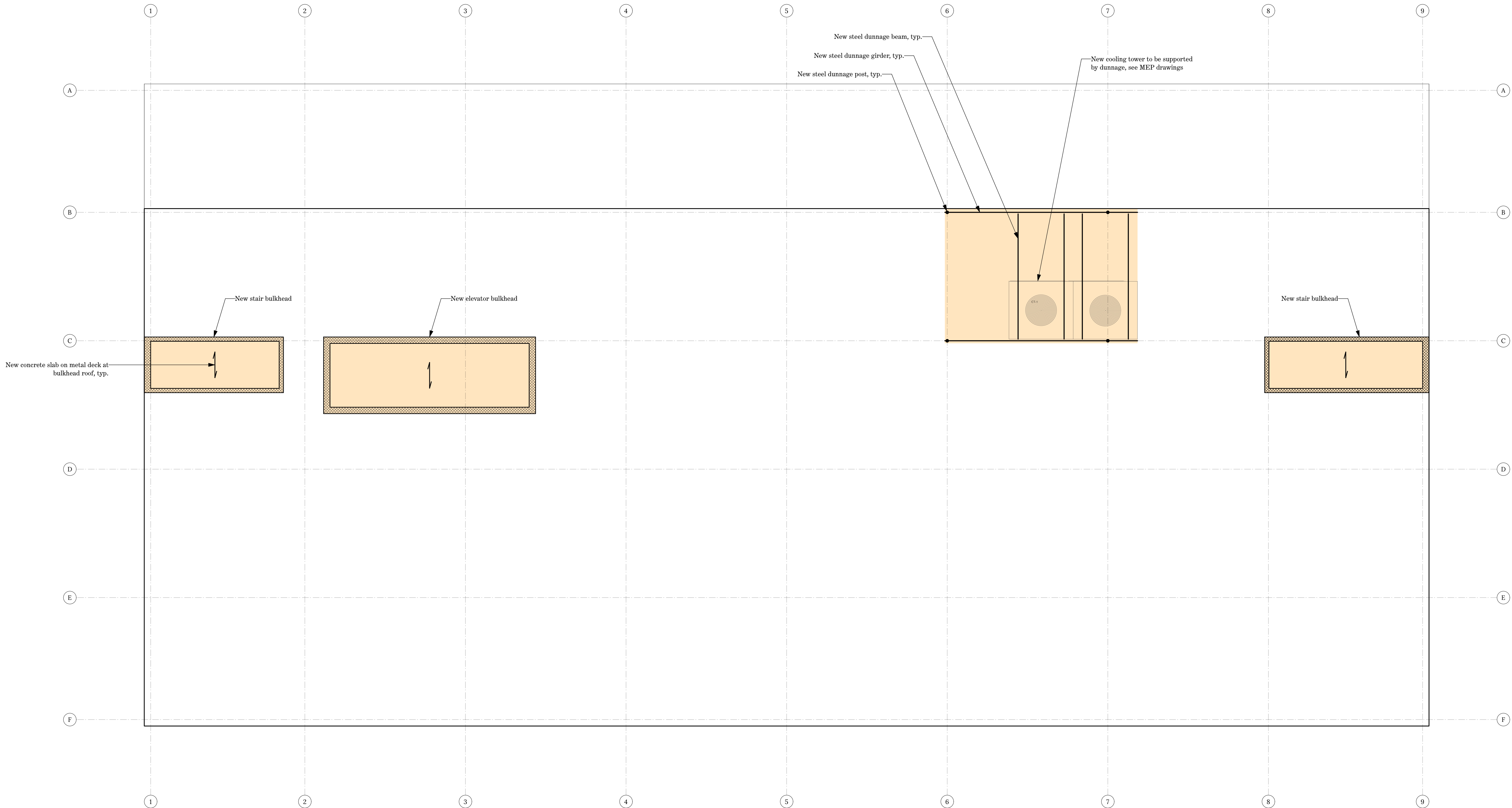
Proposed Bulkhead and Dunnage Plan

PROJECT #:

DRAWN BY:

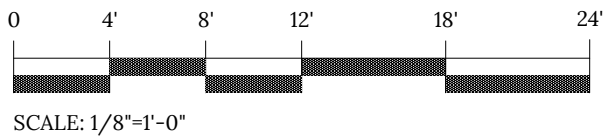
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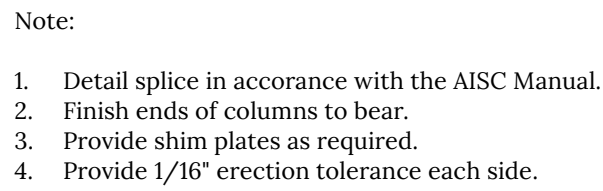
S-106.00



- LEGEND**
- Existing steel beam or girder to remain
 - New steel beam or girder
 - Existing steel column
 - New steel column
 - Existing draped mesh concrete slab to remain
 - Existing draped mesh concrete slab to be repaired
 - New concrete slab on metal deck
 - New CMU
 - Structural area of work
 - New addition

1 Proposed Bulkhead and Dunnage Plan (New Addition)
Scale: 1/8" = 1'-0"

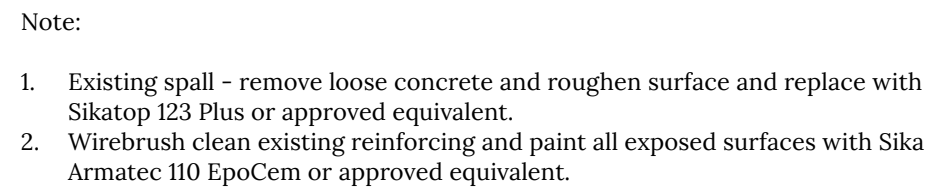
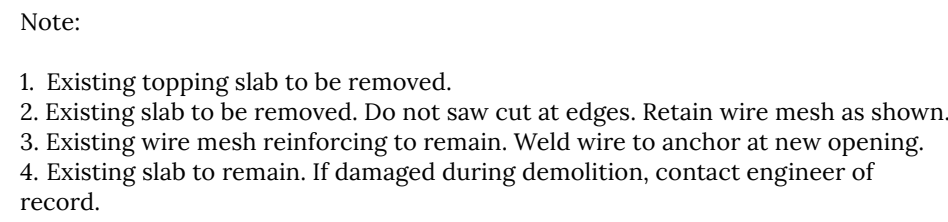
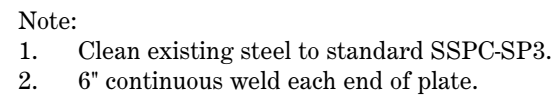




At Beam Perpendicular to Span of Deck	At Beam Parallel to Span of Deck
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Note:

1. 3/4" clear to WWF, typical.
2. Concrete fill depth.
3. Metal deck depth.
4. See architectural drawings for fireproofing and finishes.



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NYC Buildings ICC INTERNATIONAL CODE COUNCIL®	
ARCHITECT:	
MEP ENGINEER:	
STRUCTURAL ENGINEER:	
PROJECT: CASE STUDY 02 VERTICAL ENLARGEMENT	
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DOB APPROVAL STAMP:	
2026.08.14	SUBMIT FOR DOB REVIEW
2026.07.21	SUBMIT FOR DOB REVIEW
2026.06.16	SUBMIT FOR DOB REVIEW
2026.06.02	SUBMIT FOR DOB REVIEW
2026.05.26	SUBMIT FOR DOB REVIEW
DRAWING TITLE: Typical Structural Details	
PROJECT #:	DRAWN BY:
SHEET TITLE:	
TOTAL PAGE: 15	S-201.00